

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/06303

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B28D1/04 B23D45/02 B23D47/04 B28D1/00
//B23D1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B28D B23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 101 09 007 A (LOEFFLER MASCHB GMBH) 12 September 2002 (2002-09-12) paragraph '0004! - paragraph '0009! paragraph '0013! paragraph '0017! paragraph '0031! - paragraph '0041!; figures 1-5	1-3, 5-7, 9-11
X	FR 2 706 348 A (CEBE ESCANDE) 23 December 1994 (1994-12-23) page 1, line 4 - page 2, line 25 page 6, line 19 - page 15, line 30; figures 1-9	1-4, 6-8, 10, 11
X	DE 66 06 703 U (PAPENMEIER GÜNTHER) 26 November 1970 (1970-11-26) page 6, paragraph 3 - page 9, paragraph 1; figure 1	1-3, 6
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

15 July 2004

Date of mailing of the international search report

28. 07. 2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 509 585 A (CHASE ELROY A) 23 September 1924 (1924-09-23) page 1, line 46 - page 2, line 28; figure 1	18
A	EP 0 631 015 A (TONCELLI MARCELLO) 28 December 1994 (1994-12-28) the whole document	18

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11

A circular blade device comprising a numerical control means, a cutting head having a blade and manipulating means.

2. claims: 1,12-18

A circular blade device comprising a numerical control means, a cutting head having a blade, manipulating means and a (second) cutting disc disposed below the workpiece.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10109007	A	12-09-2002	DE 10109007 A1 EP 1247606 A1	12-09-2002 09-10-2002
FR 2706348	A	23-12-1994	FR 2706348 A1	23-12-1994
DE 6606703	U	26-11-1970	NONE	
US 1509585	A	23-09-1924	NONE	
EP 0631015	A	28-12-1994	EP 0631015 A1 DE 69321222 D1 DE 69321222 T2 ES 2123025 T3	28-12-1994 29-10-1998 18-02-1999 01-01-1999